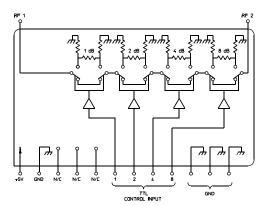
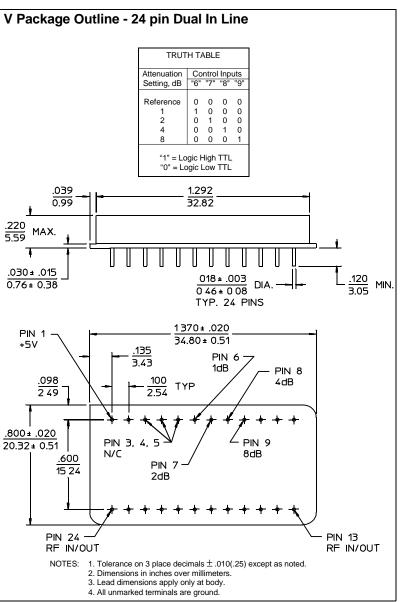
50 to 1500 MHz / 0 to 15 dB in 1 dB Steps / 4-Bit Direct TTL Control / Monotonic / +5V Supply







GENERAL SPECIFICATIONS

Frequency Range: 50 - 1500 MHz Attenuation Range: 0 - 15 dB

Minimum Step Size: 1 dB

Attenuation Flatness: \pm 0.5 dB/bit max.

 \pm 1.0 dB max

 $\begin{array}{lll} \mbox{Attenuation Accuracy:} & \pm 0.5 \mbox{ dB at } f_0 \\ \mbox{Insertion Loss:} & 4 \mbox{ dB max.} \\ \mbox{Phase Variation:} & \pm 10^{\circ} \mbox{ typ.} \\ \mbox{VSWR:} & 1.7:1 \mbox{ max.} \\ \mbox{Impedance:} & 50 \ \Omega \mbox{ nom.} \\ \mbox{Switching Delay Time:} & 2 \ \mu s \ \mbox{typ.} \end{array}$

(50% control transition to 10/90% RF)
Switching Transients: 20 mV typ.

(50% control transition to 10/90% RF)
Bias Requirement: +5 VDC

Bias Requirement: +5 VDC @ 80 mA nom.

Input Intercept Point: +32 dBm typ.
Input Power: 0.25 W max.
Weight, nominal: 0.4 oz (11 g)
Operating Temperature: -55° to +85°C

Typical Performance

15

2

2

2

3

4

20

50

100

200

500

1000

2000

FREQUENCY IN MHz

FREQUENCY IN MHz

General Notes:

The ADS-41V-1000 is constant impedance, 4-bit digital attenuator covering 50 to 1500 MHz and driven directly by TTL logic. PIN diode switched attenuator pads are activated by Advanced Fact™ C-MOS, TTL compatible logic drivers, allowing high speed operation without need of a negative supply.
 Careful design of thick film resistive pads and detailed selection of suitable PIN diodes provide a wide bandwidth with minimal phase shift.

For further information contact MERRIMAC / 41 Fairfield Pl., West Caldwell, NJ, 07006 / 973-575-1300 / FAX 973-575-0531